# BIO-DATA

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| **1.** | **Name** | PRASEED KUMAR |
| **2.** | **Designation** | **Assistant Professor** |
| **3.** | **Residential Address** | GL-14/13-Sector-6, Ekta Society- Ghansoli (E) |
| **4.** | **Date of birth** | 10 April 1969 |
| **5.** | **Total Experience** | **24 Years** |
| **i.** | **Teaching** | **17 Years** |
| **ii.** | **Industrial** | **10 Years** |
| **6.** | **Qualifications** | |

| Exam Passed | Year | Institution/ University | Branch/Specialization | Percentage/CGPI |
|---|---|---|---|---|
| M.E | 2013 | Mumbai university | Mechanical | 74 |
| B. Tech. | **1991** | Pondicherry university | Mechanical | **66** |

**Additional Qualification:**

**7. Employment Record**

| Institution | Year (From To) | Designation |
|---|---|---|
| Fr.C.Rodrigues Institute Of Technology,vashi | 2008- till date | Assistant Professor |
| Elamc packages pvt. Ltd. | 1993- 2000 | Engineer |

**8. Undergraduate / Postgraduate Teaching Experience and Subjects Taught**

**Subjects Taught at UG level**

| Sr.No. | Name of Subject | Semester |
|---|---|---|
| 1. | Production Process – I | III |
| 2. | Mechatronics | VI |
| 3. | Mechanical measurement and control | V |
| 4. | MEMS | VIII |
| 5. | Metal Forming Technology<br>Automation & Artificial Intelligence | VI<br>VI |

**Subjects Taught at PG level**

| Sr.No. | Name of Subject | Semester |
|---|---|---|
| 1. | MEMS | II |

**9. Research Experience: 15**

**10. Research Funding / Consultancy Services:**

| Sr.No. | Name of the Company | Address | Product | Consulting Service | Consulting Fees | Period |
|---|---|---|---|---|---|---|
| | | | | | | |

**Research Grants:**

| Sr.No. | Name of Funding Organization | Type of Grant | Amount (Rs.) | Year | Name of Research Project |
|---|---|---|---|---|---|
| 1 | Mumbai University | Minor research | 30000 | 2019 | "Active vibration control of cantilever beam" |
| 2 | Fr.C.Rodrigues Institute of Technology , Vashi- Navi Mumbai | ILRF Scheme | 50000/. | 2023 | Fault Diagnosis of Rotating System using Machine Learning |

**Technical Collaboration / Lab Funding with Industries**

| Sr.No. | Name of the Funding Organization | Type of Support | Amount (Rs.) | Year |
|---|---|---|---|---|
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**11.** **Professional Societies Fellowship / Membership : SAE**

**12.** **Achievements / Awards / Position**

**13.** **Projects guided in UG/PG level : 20/03**

**14.** **Short Term Training Programmes Organized**

1. Certification Program on "Virtual Instrumentation and Automation" 3rd - 7th July, 2023.
2. Certification Program on Virtual Instrumentation and Automation (09th – 13th December 2024)

**15.** List of Journal Papers Published

2. "Liquid Level Control Using PID Controller Based On LabVIEW and Matlab software' International journal of engineering research and technology-ISSN:2278-0181, In IJERT, Volume 3, Isuue.10, October-2014
3. "Control of Motor and Pump using LabVIEW and Arduino" –ISRFE –ISSN 2320-7396- OCT-201
4. Automatic control of a pump system for water level using Microcontroller and LabVIEW International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395 -005 Volume: 03 Issue: 05 | May-2016 p-ISSN: 2395-0072
5. "Experimental investigation of performances of different optimal controllers in active
6. vibration control of a cantilever beam", ISSS Journal of Micro and Smart Systems, ISSN 2509-7989 Volume 8, Number 2, 2019.
7. Effect of position of radial air injection plane on control of thermo-acoustic instability using
8. active closed-loop method", Journal of Vibration and Control, 2021, Vol. 0(0) 1–9
9. Development of closed-loop active control method for suppression of thermoacoustic instability using radial air micro-jets , MethodsX, 1 March, 2023.

**16.** List of Papers Published in National and International Conferences

1. "Liquid Level Control Using PID Controller Based On LabVIEW Software", International Conference on Civil, Mechanical, Biological and Medical Engineering
2. (ICMBME), 20th April, 2014
   "Automatic control of a pump using "P" controller based on LabVIEW software"
3. International journal of advanced foundation and research in science and engg., March 2015
4. Automatic control water level in the tank using LabVIEW & Microcontroller" Irjet
5. "Implementation of H-infinity controller in experimental active vibration control of a cantilever beam", ICNTE-2017, at FCRIT, Vashi
6. "Simulation study of active vibration control of beams supported at both ends using optima controllers", ICNTE-2017 at FCRIT -Vashi
7. "Design of spring testing machine" International conference on advances in thermal system materials and design engg., Dec-2018 at VJTI-Mumbai
8. "Automatic fire fighting robotic system", 4th international conference on industrial engg., (ICIE 2017) at NIT Surat 21-23 December 2017.
9. "Automatic colour sorting machine" 4th international conference on industrial engg., (ICIE-2017 at NIT Surat 21-23 December 2017.
10. "Design and development of spring testing machine", International Conference on Frontiers i Engineering, Applied Sciences and Technology (FEAST 2018), NIT Tiruchirappalli, 27 April 2018
11. "Investigation on performance of Different type of Controllers in Active Vibration Control" ICNTE, Fr. C. Rodrigues Institute of Technology, Vashi, January 15-16,2021.
12. "Mapping, Trajectory Planning, and Navigation for Hexapod Robots Using ROS", International Conference on Energy, Materials Sciences and Mechanical Engineering, National Institute of Technology Delhi, Delhi, India, October 30th -November 01st, 2020.
13. "Characterization of Magnetorheological Damper", ICNTE-Fr. C. Rodrigues Institute of Technology, Vashi, January 15-16,2021.
14. "Automated Seed Sowing Robot", ICNTE, Fr. C. Rodrigues Institute of Technology, Vashi January 15-16,2021.

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| | 15. Damage detection in beams using Vibration Analysis and Artificial Neural Network, ICNTE-2021, Fr. C. Rodrigues Institute of Technology, Vashi, January 15-16,2021.<br><br>16. Residual Stress Predictions in Welded Plates using Artificial Neural Network and Experimental Validations, International Conference on Applied Mechanics, Machine Learning and Advanced Computations, NIT Raipur, 16 th-17 th March -2022.<br><br>17. Fault Diagnosis in Rotating Machines using Vibration Analysis, International Conference on recent advancements in mechanical engineering, Machine Learning and Advanced Computations, NIT Raipur, 3-5 February -2023.<br>18. Vibration Based Damage Detection in Plates using Mode Shapes, International Conference on recent advancements in mechanical engineering, Machine Learning and Advanced Computations, NIT Raipur, 3-5 February -2023.<br>19. Experimental and Simulation Study of Transmissibility of Isolation Material, International Conference on Vibration Engineering, Science and Technology, 9th & 10th December 2022.<br>20. Design & Development of Semi-Automated Multipurpose Electric Farming Bot, 5th Biennial International Conference on Nascent Technologies in Engineering, FCRIT, Vashi January 20-21, 2023<br><br>21. "Fault Diagnosis in Rotating Machines Using Vibration Analysis", 4th International Conference on Recent Advancements in Mechanical Engineering(ICRAME), NIT Silcher, 3-5, February 2023.<br>22. "Vibration based damage detection in plates using mode shapes", 4th International Conference on Recent Advancements in Mechanical Engineering(ICRAME), NIT Silcher, 3-5, February 2023.<br>23. Design and Development of a Semi-Automated Pneumatic System for Production of Washers in the International Conference on Recent Advances in Science, Engineering & Technology, MKSSS Cummins College of Engineering for Women, Nagpur, 29-30 September 2023.<br>24. "Vibration Analysis of Faults in Rotating Machineries", In Proc. International Conference on Technologies for Energy, Agriculture and Healthcare (ICTEAH 2024), Mumbai, India, April, 15-16, 2024.<br>25. "Design and Development of a Fully Automated Solar Grass Cutting Robot" in the International Conference on Advances in Mechanical, Mechatronics & Civil Engineering (IC-AMMCE 2025) organized during February, 21 & 22 nd, 2025 at Thakur College of Engineering and Technology, Kandivali (E), Mumbai.<br>26. "Study of Flow Induced Vibration due to venture" in the International Conference on Advances in Mechanical, Mechatronics & Civil Engineering (IC-AMMCE 2025) organized during February, 21 & 22 , 2025 at Thakur College of Engineering and Technology, Kandivali (E), Mumbai. |
| | **Books/Reports/General articles etc.** |

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| **18.** | FDP/ STTP Attended<br>1. Micromachining held at V.J.T.I. in 2008<br>2. Attended STTP at Agnel poly technique on: “industrial application of Mechatronics “from 6th Dec to 29 th Dec.<br>3. Attended Siemens sponsored STTP at Fr. Rodrigues institute of technology on “Product life cycl management (PLM)” form 30 June to 4 th July.<br>4. Attended two days SSTP on “Introduction to Robotics “from 24-24 July 2105, at IIT Bombay.<br>5. Attended one-week short term training program (STTP) on “Micro Electro Mechanical System (MEMS)” at Sardar Patel College of Engineering, Andheri from 4th to 8th Jan-2016<br>6. Attended 3 Days FDP on “ANSYS skill development program under “share and mentor institutions scheme” from 5 to 7 Dec. 2017<br>7. Organized one week STTP on MEMS, from January 2, 2018 to Jan-7, 2018.<br>8. Attended one week STTP on “Micro-electromechanical Systems" from 2020-11-23 to 2020-11-2 at Sardar Patel College of Engineering. Sponsored by ATAL<br>9. Completed Coursera programming for everybody, getting started with python, from University o Michigan, 2020<br>10. Attended one week STTP on “Modern Trends in Manufacturing and Thermal Science (MTMTS 2022)" organized by Department of Mechanical Engineering, National Institute of Technology Delhi, India, held during April 05-10th, 2022. |

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| | 11. Attended STTP on “Pedagogical Strategies for Effective Teaching Learning held during 18- 2 December, 2023, Organized by FR.C. Rodrigues Institute of Technology, Vashi – Navi Mumbai India. |
| **19.** | International Conference Technical Program Committee Member / Reviewer:<br>Reviewed two papers in 4th Biennial International Conference on Nascent Technologies in<br>Engineering organized by Fr. C. Rodrigues Institute of Technology, Vashi, Navi Mumbai, India |
| **20.** | **Patents:** A METHOD OF SUPPRESSING THERMO-ACOUSTIC INSTABILITIES BY MEANS OF ACTIVE CLOSED LOOP: Application No.202021026306 A |